

LIQUID CRYSTAL DISPLAY DEVICE WITH RETARDATION PLATES

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ABSTRACT OF THE DISCLOSURE

10 A liquid crystal display device includes a liquid
crystal cell, polarizers, a first retardation plate
arranged between the liquid crystal cell and the first
polarizer, and a second retardation plate arranged
between the liquid crystal cell and the second polarizer.
Each retardation plate has an optical axis in a plane
parallel to the substrate surface and a retardation of
15 substantially $\lambda/4$. The optical axis of one retardation
plate is perpendicular to the optical axis of the other.
The polarizing axes of the polarizers are arranged at an
angle of 45° with respect to the optical axes of the
retardation plates. The liquid crystal cell is arranged
20 such that a state of alignment of liquid crystal
molecules changes, accompanying a change in a polar angle
and/or change in an azimuth, upon application of a
voltage.

10079008-021902